

Diet-Dependent Effects of the *Drosophila* Mnk1/Mnk2 Homolog Lk6 on Growth via eIF4E

Jan H. Reiling, Kathrin T. Doepfner, Ernst Hafen,* and Hugo Stocker

Zoologisches Institut

Universität Zürich

Winterthurerstrasse 190

CH-8057 Zürich

Switzerland

*Correspondence: hafent@zool.unizh.ch

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In this paper, the Lk6 mutations were incorrectly annotated in Figure 2A. The corrected Figure 2A is shown below. We thank U. Schäfer (MPI Göttingen, Germany) for pointing out the mistake and apologize for any inconvenience this may have caused.

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human_Mnk1    48  K K T S E L L G R G A Y A V G S A V S Q N G K E Y A V K I E K Q A R H S S R V P R E V E T L Y C C G N K N T I E D I P P P E D D T P Y L V P E K I Q G G S T A H Q Y K K H N E P E A S V V V R
human_Mnk2a   89  K C H Q E D V L G R G A H A V G C P C N E I T S C E Y A V K I E K Q P G H S R V P R E V E M L T C C G H N V D E E P P P E E D D P Y L V P E K M G G S E S H H K R R H N E L A S V V V Q
Lk6           117  K K T G E I L G R G A H A V G C P C V N E I T D L E Y A V K V I E K I F G H A A R V P R E V E T F H R C G H L G I L C L I E P P P E D D K P Y L V P E K I N G Q P L S R I Q H I C E S H H A S Q I I K
                                     R (Lk6264)      R (Lk6264)

human_Mnk1    153  D V A A A L D P L H K G I A H R D L K P E N I L C S P R K V S D V K I C D P D L G S G M K L N N S C T E I T T P E L D T P C S S A E Y M A P E V V E V T D O A T E Y D K R C D L W S L G V I Y I M I S G
human_Mnk2a   188  D V A S A L D P L H K G I A H R D L K P E N I L C E H P N Q V S D V K I C D P D L G S G K L N G D C S E I S T P E L D T P C S S A E Y M A P E V V E A P S E E A S T Y D K R C D L W S L G V I Y I L L S G
Lk6           222  E I A S G L D P L H K G I A H R D L K P E N I L C V K T D S L C E I K I C D P D L G S G K P T T D I S S E A A P Q Q L D T P V G S A E Y M A P E V V D E V G B A H T Y D K R C D L W S L G V I A Y I L L C G
                                     L (Lk6272)

human_Mnk1    257  Y P P F V G H C G A D C G W D R G E V C R V C Q N K L F E S I Q E C K Y E F P D K D M A H I S S E A K D L I S K L L V R D A K Q R L S A A Q V L Q H P W V
human_Mnk2a   292  Y P P F V G R C G S D C G W D R G B A C P A C C N M L F E S I Q E C K Y E F P D K D M A H I S C A A K D L I S K L L V R D A K Q R L S A A Q V L Q H P W V
Lk6           327  Y P P F S G N C G B D C G W N R G B N E R T C C B L L F E S I Q E C H F S P F P A E M H D V S D E A K D L I S N L L V K R A S R R L S A E A V L N H P W I
                                     * (Lk6337)

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Figure 2A. Loss of Lk6 Does Not Lead to Growth Abnormalities under Standard Culture Conditions

(A) Alignment of the highly conserved kinase domains of Lk6 (CG17342-PA) and human Mnk1 (NP_945324) and Mnk2a (NP_060042), respectively. The sequence changes caused by the EMS-induced *Lk6* mutations are indicated. *Lk6*³⁶: Gly to Arg at position 154. *Lk6*²⁶: His to Arg at position 168. *Lk6*²⁵: Ser to Leu at position 265. *Lk6*¹⁵: frame shift at position 362 leading to translation termination after twelve additional amino acids (FFSGGRVARCQR). *Lk6*³⁸ results in a truncation at position 474 after the kinase domain.

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